## Claims

1. Method for monitoring changes and states in reaction chambers, characterized in that a fluid is transported out of a reservoir to a supply unit and drips or flows into a drip chamber so that air bubbles that are transported with said fluid escape into the environment, and in that said fluid forms a supply above a head (7) and a reaction chamber (2), whereby the height of the fluid surface (4) and thus the supply volume is determined using a first through-channel (5) and a fluid exchange occurs in said reaction chamber due to the suctioning via said first through-channel (5) and the flowing of said fluid out of said drip chamber caused thereby.

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- 2. Method in accordance with claim 1, characterized in that said fluid is transported into said drip chamber via a second through-channel (6).
- 3. Method in accordance with either of claims 1 or 2, characterized in that the height of said fluid surface (4) and thus the supply volume is determined using a third through-channel (11).
  - 4. Method in accordance with any of claims 1 through 3, characterized in that a change in said fluid (3) or in a surface in said reaction chamber (2) is initiated by living cells, cell components, DNA, RNA, enzymes, antibodies, and/or chemical, biochemical, and/or immunological reactions.

- 5. Method in accordance with any of claims 1 through 4, characterized in that said liquid flows through said reaction chamber (2) continuously or alternately in flow or stop phases.
- 6. Method in accordance with any of claims 1 through 5, characterized in that said reaction chamber (2) can be changed by a lifting mechanism of the head carrier (1) so that said fluid in said drip chamber is mixed with said fluid in said reaction chamber (2).

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- 7. Method in accordance with any of claims 1 through 6, characterized in that a membrane (14) is arranged in said reaction chamber (2) such that said fluid does not flow directly into portions of said reaction chamber (2).
  - 8. Supply unit for monitoring changes and states in reaction chambers, characterized in that a first through-channel (5) opening into the reaction chamber (2) suctions a fluid (3) and the inlet occurs via a second through-channel (6) above the fluid surface (4) into a drip chamber.
- 9. Supply unit in accordance with claim 8, characterized in that said first through-channel (5) is arranged within said head carrier (1) and opens into said reaction chamber (2).

- 10. Supply unit in accordance with claim 8, characterized in that said first through-channel (5) is arranged in the bottom of said reaction chamber (2).
- 11. Supply unit in accordance with any of claims 8 through 10, characterized in that said head carrier (1) comprises a head (7) with a stock-shaped shaft (8) and an enlargement (9) for accommodating said second through-channel (6).

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- 12. Supply unit in accordance with any of claims 8 through 10, characterized in that said second through-channel (6) for supplying said fluid is arranged adjacent to said head carrier (1).
- 13. Supply unit in accordance with any of claims 8 through 12, characterized in that a third through-channel (11) is arranged within said receptacle (10) such that as an emergency suction it prevents an overflow.
  - 14. Supply unit in accordance with any of claims 8 through 13, characterized in that arranged above said enlargement (9) and within said receptacle (10) is a second enlargement (12) for accommodating a third through-channel (11) that as an emergency suction prevents an overflow.
  - 15. Supply unit in accordance with any of claims 8 through 14, characterized in that the surface is provided with a hydrophobic and/or hydrophilic coating.

16. Supply unit in accordance with any of claims 8 through 15, characterized in that sensor systems (13) for detecting the change in said fluid are arranged in said reaction chamber (2) and/or in said first through-channel (5).